

Application No.: 10/511,831 MTS-3542US  
Amendment Dated: January 7, 2008  
Reply to Office Action of: October 5, 2007

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) An AutoREC signal multiplex apparatus comprising:

video signal generation means of generating a video signal ~~by recording a video~~;

video signal recording means of recording said generated video signal;

~~indication means of indicating a start of said recording and/or a stop of said a recording performed by said video signal recording means;~~

AutoREC signal generation means of generating an AutoREC signal, which has recording marks to be multiplexed with frames where said recording is continued, in conjunction with the start of ~~said recording and/or the stop of said recording based on said respective indications~~; and

AutoREC signal multiplex means of multiplexing said generated AutoREC signal with said generated video signal,

wherein said video signal recording means records a video signal with which said generated AutoREC signal has been multiplexed.

2. (Original) The AutoREC signal multiplex apparatus according to claim 1, wherein said AutoREC signal multiplex means multiplexes said generated AutoREC signal with said generated video signal at the timing of said indication.

3. (Original) The AutoREC signal multiplex apparatus according to claim 1, wherein said AutoREC signal is multiplexed with a LTC (Longitudinal Time Code) user's bit or a VITC (Vertical Interval Time Code) user's bit of a frame of said video signal.

4. (Original) The AutoREC signal multiplex apparatus according to claim 1, wherein said AutoREC signal has a start mark to be multiplexed with a frame where said recording is started, and a stop mark to be multiplexed with a frame where said recording is stopped.

5. (Original) The AutoREC signal multiplex apparatus according to claim 4, wherein said AutoREC signal multiplex means multiplexes said start marks with a predetermined number of frames after the frame where said recording is started.

6. (Original) The AutoREC signal multiplex apparatus according to claim 4, wherein said AutoREC signal multiplex means multiplexes said stop marks with a predetermined number of frames before the frame where said recording is stopped.

7. (Cancelled).

8. (Currently Amended) An AutoREC signal multiplex method comprising:  
~~a video signal generation step of generating a video signal by recording a video;~~

a video signal recording step of recording said generated video signal;

an indication step of indicating a start of said recording and/or a stop of said recording performed in said video signal recording step;

an AutoREC signal generation step of generating an AutoREC signal, which has recording marks to be multiplexed with frames where said recording is continued, in conjunction with the start of said recording and/or the stop of said recording based on said respective indications; and

an AutoREC signal multiplex step of multiplexing said generated AutoREC signal with said generated video signal,

wherein a video signal with which said generated AutoREC signal has been multiplexed is recorded.

9. (Currently Amended) A program on a computer-readable medium,

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~~which program causes for making a computer execute: to act as the video signal generation step of generating a video signal by recording a video, to act as the video signal recording step of recording said generated video signal, to act as the AutoREC signal generation step of generating an AutoREC signal, which has recording marks to be multiplexed with frames where said recording is continued, in conjunction with the start of said recording and/or the stop of said recording based on said respective indication, indications and to act as the AutoREC signal multiplex step of multiplexing said generated AutoREC signal with said generated video signal, the steps being included in the AutoREC signal multiplex method according to of claim 8.~~

10. (Currently Amended) A computer-readable recording medium which stores ~~of recording~~ the program according to of claim 9, wherein the recording medium is computer processible.

11. (Currently Amended) A video signal division apparatus comprising:

video signal reproduction means of reproducing a recorded video signal that has been generated, with which an AutoREC signal is multiplexed, said AutoREC signal having been generated in conjunction with a start and/or a stop of a performed recording based on respective indications of the start and/or the stop of said recording and having recording marks multiplexed with frames where said recording is continued;

~~AutoREC signal detection means of detecting an AutoREC said AutoREC signal which is (1) generated, based on indication of a start of a recording of a video and/or a stop of said recording, in conjunction with the start of said recording and/or the stop of said recording, and (2) multiplexed with a video said reproduced video signal generated by performing said recording, and~~

video signal division means of dividing said reproduced video signal based on a result of said detection.

12. (Previously Presented) The video signal division apparatus according to claim 11, wherein said AutoREC signal has a start mark to be multiplexed with a frame where said recording is started, and a stop mark to be multiplexed with a frame where

said recording is stopped.

13. (Previously Presented) The video signal division apparatus according to claim 12, wherein said video signal division means once divides said generated video signal when said AutoREC signal detection means continuously detects said start marks without detecting said stop marks.

14. (Previously Presented) The video signal division apparatus according to claim 11, wherein said AutoREC signal has recording marks to be multiplexed with frames where said recording is continued.

15. (Previously Presented) The video signal division apparatus according to claim 14, wherein said video signal division means once divides said generated video signal when said AutoREC signal detection means stops detecting said recording marks.

16. (Previously Presented) The video signal division apparatus according to claim 14, wherein said recording mark has a value which changes for every frame.

17. (Previously Presented) The video signal division apparatus according to claim 16, wherein said video signal division means once divides said generated video signal when said AutoREC signal detection means continuously detects said recording marks having the same value.

18. (Previously Presented) The video signal division apparatus according to claim 11, wherein said generated AutoREC signal is multiplexed again with said divided video signal.

19. (Previously Presented) The video signal division apparatus according to claim 11, wherein a predetermined pre-roll video signal is inserted just before said divided video signal.

20. (Currently Amended) A video signal division method comprising:

a video signal reproduction step of reproducing a recorded video signal that has been generated, with which an AutoREC signal is multiplexed, said AutoREC signal

having been generated in conjunction with a start and/or a stop of a performed recording based on respective indications of the start and/or the stop of said recording and having recording marks multiplexed with frames where said recording is continued;

an AutoREC signal detection step of detecting an AutoREC said AutoREC signal which is (1) generated, based on indication of a start of a recording of a video and/or a stop of said recording, in conjunction with the start of said recording and/or the stop of said recording, and (2) multiplexed with a video said reproduced video signal generated by performing said recording, and

a video signal division step of dividing said reproduced video signal based on a result of said detection.

21. (Currently Amended) A program on a computer-readable medium, for making which program causes a computer execute: to act as the video signal reproduction step of reproducing a recorded video signal that has been generated, with which an AutoREC signal is multiplexed, said AutoREC signal having been generated in conjunction with a start and/or a stop of a performed recording based on respective indications of the start and/or the stop of said recording and having recording marks multiplexed with frames where said recording is continued, to act as the AutoREC signal detection step of detecting an AutoREC said AutoREC signal which is (1) generated, based on indication of a start of a recording of a video and/or a stop of said recording, in conjunction with the start of said recording and/or the stop of said recording, and (2) multiplexed with a video said reproduced video signal generated by performing said recording, and to act as the video signal division step of dividing said reproduced video signal based on a result of said detection,

; the steps being included in the video signal division method according to of claim 20.

22. (Currently Amended) A computer-readable recording medium which stores of recording the program according to of claim 21, wherein the recording medium is computer processible.

23. (Currently Amended) A video system, comprising:

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an AutoREC signal multiplex apparatus, having video signal generation means of generating a video signal ~~by recording a video~~, video signal recording means of recording said generated video signal, indication means of indicating a start of ~~said recording~~ and/or a stop of ~~said a recording performed by said video signal recording means~~, AutoREC signal generation means of generating an AutoREC signal, which has recording marks to be multiplexed with frames where said recording is continued, in conjunction with the start of ~~said recording~~ and/or the stop of said recording based on said respective indications, and AutoREC signal multiplex means of multiplexing said generated AutoREC signal with said generated video signal, said video signal recording means recording a video signal with which said generated AutoREC signal has been multiplexed; and

a video signal division apparatus, having video signal reproduction means of reproducing said recorded video signal with which said generated AutoREC signal is multiplexed, AutoREC signal detection means of detecting an ~~AutoREC~~said AutoREC signal which is multiplexed with said reproduced video signal, and video signal division means of dividing said reproduced video signal based on a result of said detection.